



SEQUENCE LISTING

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Lovenberg, Timothy W.
Sillard, Rannar
Sutton, Steven W.

<120> RELAXIN3-GPCR135 COMPLEXES AND THEIR PRODUCTION AND USE

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<140> US 10/786,478

<141> 2004-02-25

<150> US 60/451,702

<151> 2003-03-04

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<170> PatentIn version 3.3

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Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Met Gln Gly Trp
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Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
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Phe Gln Phe Val Leu Thr Leu Pro Phe Trp Ala Val Glu Asn Ala Leu
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Thr Arg Gly His Gly Arg Gly Asp Cys Cys Gly Arg Ser Leu Gly Asp
195 200 205

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Ala Ala Leu Ala Ser Leu Pro Ser Ala Ile Phe Ser Thr Thr Val Lys
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Tyr Ala Phe Pro Val Ser Val Cys Leu Ala His Ser Asn Ser Cys Leu
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Asn Pro Val Leu Tyr Cys Leu Val Arg Arg Glu Phe Arg Lys Ala Leu
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Lys Ser Leu Leu Arg Arg Ile Ala Ser Pro Ser Ile Thr Ser Met Arg
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Pro Phe Thr Ala Thr Thr Lys Pro Glu His Glu Asp Gln Gly Leu Gln
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Pro Pro Gly Gly Gly Ala Glu Ser Thr Asp Thr Glu Ala Arg Val
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Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Lys Gln Gly Trp
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Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
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Phe Gln Phe Val Leu Thr Leu Pro Phe Trp Ala Val Glu Asn Ala Leu
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Asp Phe Lys Trp Pro Phe Gly Lys Ala Met Cys Lys Ile Val Ser Met
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Val Thr Ser Met Asn Met Tyr Ala Ser Val Phe Phe Leu Thr Ala Met
165 170 175

Ser Val Ala Arg Tyr His Ser Val Ala Ser Ala Leu Lys Ser His Arg
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Thr Arg Gly Arg Gly Arg Gly Asp Cys Cys Gly Gln Ser Leu Arg Glu
195 200 205

Ser Cys Cys Phe Ser Ala Lys Val Leu Cys Gly Leu Ile Trp Ala Ser
210 215 220

Ala Ala Leu Ala Ser Leu Pro Asn Ala Ile Phe Ser Thr Thr Ile Arg
225 230 235 240

Val Leu Gly Glu Glu Leu Cys Leu Met His Phe Pro Asp Lys Leu Leu
245 250 255

Gly Trp Asp Arg Gln Phe Trp Leu Gly Leu Tyr His Leu Gln Lys Val
260 265 270

Leu Leu Gly Phe Leu Leu Pro Leu Ser Ile Ile Ser Leu Cys Tyr Leu
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Leu Leu Val Arg Phe Ile Ser Asp Arg Arg Val Val Gly Thr Thr Asp
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Ala Val Gly Ala Ala Ala Ala Pro Gly Gly Leu Ser Thr Ala Ser
305 310 315 320

Ala Arg Arg Arg Ser Lys Val Thr Lys Ser Val Thr Ile Val Val Leu
325 330 335

Ser Phe Phe Leu Cys Trp Leu Pro Asn Gln Ala Leu Thr Thr Trp Ser
340 345 350

Ile Leu Ile Lys Phe Asn Ala Val Pro Phe Ser Gln Glu Tyr Phe Gln
355 360 365

Cys Gln Val Tyr Ala Phe Pro Val Ser Val Cys Leu Ala His Ser Asn
370 375 380

Ser Cys Leu Asn Pro Ile Leu Tyr Cys Leu Val Arg Arg Glu Phe Arg
385 390 395 400

Lys Ala Leu Lys Asn Leu Leu Trp Arg Ile Ala Ser Pro Ser Leu Thr
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Asn Met Arg Pro Phe Thr Ala Thr Thr Lys Pro Glu Pro Glu Asp His
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Gly Leu Gln Ala Leu Ala Pro Leu Asn Ala Ala Ala Glu Pro Asp Leu
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Ser Leu Gln Leu Gln Asp Leu Trp Trp Glu Leu Gly Leu Glu Leu Pro
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Asp Gly Ala Ala Pro Gly His Pro Pro Gly Ser Gly Gly Ala Glu Ser
65 70 75 80

Ala Asp Thr Glu Ala Arg Val Arg Ile Leu Ile Ser Ala Val Tyr Trp
85 90 95

Val Val Cys Ala Leu Gly Leu Ala Gly Asn Leu Leu Val Leu Tyr Leu
100 105 110

Met Lys Ser Lys Gln Gly Arg Arg Lys Ser Ser Ile Asn Leu Phe Val
115 120 125

Thr Asn Leu Ala Leu Thr Asp Phe Gln Phe Val Leu Thr Leu Pro Phe
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Trp Ala Val Glu Asn Ala Leu Asp Phe Lys Trp Pro Phe Gly Lys Ala
145 150 155 160

Met Cys Lys Ile Val Ser Met Val Thr Ser Met Asn Met Tyr Ala Ser
165 170 175

Val Phe Phe Leu Thr Ala Met Ser Val Ala Arg Tyr His Ser Val Ala
180 185 190

Ser Ala Leu Lys Ser His Arg Thr Arg Gly His Gly Arg Gly Asp Cys
195 200 205

Cys Gly Gln Ser Leu Gly Glu Ser Cys Cys Phe Ser Ala Lys Val Leu
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Cys Gly Leu Ile Trp Ala Ser Ala Ala Ile Ala Ser Leu Pro Asn Val
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Ile Phe Ser Thr Thr Ile Asn Val Leu Gly Glu Glu Leu Cys Leu Met
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His Phe Pro Asp Lys Leu Leu Gly Trp Asp Arg Gln Phe Trp Leu Gly
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Leu Tyr His Leu Gln Lys Val Leu Leu Gly Phe Leu Leu Pro Leu Ser
275 280 285

Ile Ile Ser Leu Cys Tyr Leu Leu Leu Val Arg Phe Ile Ser Asp Arg
290 295 300

Arg Val Val Gly Thr Thr Asp Gly Ala Thr Ala Pro Gly Gly Ser Leu
305 310 315 320

Ser Thr Ala Gly Ala Arg Arg Ser Lys Val Thr Lys Ser Val Thr
325 330 335

Ile Val Val Leu Ser Phe Phe Leu Cys Trp Leu Pro Asn Gln Ala Leu
340 345 350

Thr Thr Trp Ser Ile Leu Ile Lys Phe Asn Val Val Pro Phe Ser Gln
355 360 365

Glu Tyr Phe Gln Cys Gln Val Tyr Ala Phe Pro Val Ser Val Cys Leu
370 375 380

Ala His Ser Asn Ser Cys Leu Asn Pro Ile Leu Tyr Cys Leu Val Arg
385 390 395 400

Arg Glu Phe Arg Lys Ala Leu Lys Asn Leu Leu Trp Arg Ile Ala Ser
405 410 415

Pro Ser Leu Thr Ser Met Arg Pro Phe Thr Ala Thr Thr Lys Pro Glu
420 425 430

Pro Glu Asp His Gly Leu Gln Ala Leu Ala Pro Leu Asn Ala Thr Ala
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Arg Ile Leu Ile Ser Ala Val Tyr Trp Val Val Cys Ala Leu Gly Leu
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Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Lys Gln Gly Trp
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Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
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Asp Phe Lys Trp Pro Phe Gly Lys Ala Met Cys Lys Ile Val Ser Met
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Val Thr Ser Met Asn Met Tyr Ala Ser Val Phe Phe Leu Thr Ala Met
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Thr Arg Gly His Gly Arg Gly Asp Cys Cys Gly Gln Ser Leu Gly Glu
195 200 205

Ser Cys Cys Phe Ser Ala Lys Val Leu Cys Gly Leu Ile Trp Ala Ser
Page 12

210 215 220
Ala Ala Ile Ala Ser Leu Pro Asn Val Ile Phe Ser Thr Thr Ile Asn
225 230 235 240

Val Leu Gly Glu Glu Leu Cys Leu Met His Phe Pro Asp Lys Leu Leu
245 250 255

Gly Trp Asp Arg Gln Phe Trp Leu Gly Leu Tyr His Leu Gln Lys Val
260 265 270

Leu Leu Gly Phe Leu Leu Pro Leu Ser Ile Ile Ser Leu Cys Tyr Leu
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Leu Leu Val Arg Phe Ile Ser Asp Arg Arg Val Val Gly Thr Thr Asp
290 295 300

Gly Ala Thr Ala Pro Gly Gly Ser Leu Ser Thr Ala Gly Ala Arg Arg
305 310 315 320

Arg Ser Lys Val Thr Lys Ser Val Thr Ile Val Val Leu Ser Phe Phe
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340 345 350

Lys Phe Asn Val Val Pro Phe Ser Gln Glu Tyr Phe Gln Cys Gln Val
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Tyr Ala Phe Pro Val Ser Val Cys Leu Ala His Ser Asn Ser Cys Leu
370 375 380

Asn Pro Ile Leu Tyr Cys Leu Val Arg Arg Glu Phe Arg Lys Ala Leu
385 390 395 400

Lys Asn Leu Leu Trp Arg Ile Ala Ser Pro Ser Leu Thr Ser Met Arg
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Pro Phe Thr Ala Thr Thr Lys Pro Glu Pro Glu Asp His Gly Leu Gln
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Ser Ser Ser Ala Tyr

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